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Route Tracker

Description

Route Tracker app tracks the routes of user by using on device GPS.

Intended User

This app is created for travelers, hikers and all individuals who want to keep record of their outdoor activities.

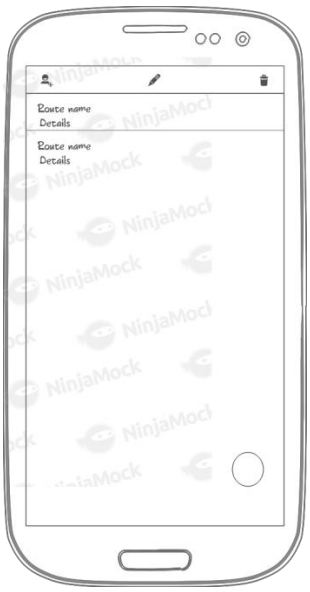
Features

Main features of the app:

- Saves route information into database
- Displays list of user routes previously saved into database
- Displays selected route on the Map
- Displays selected route summary on the screen

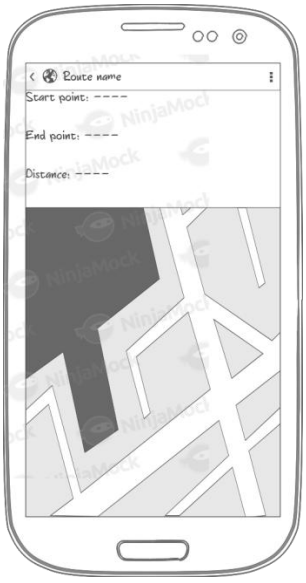
User Interface Mocks

Screen 1



Main screen with list on saved routes and a floating action button to create new route.

Screen 2



Screen to display selected route details with points on the map

Screen 3

Screen to create new route with current location details.

Key Considerations

How will your app handle data persistence?

Data will be saved locally into device local database using Content Provider. Data also will be saved remotely on Firebase Realtime database.

Describe any edge or corner cases in the UX.

User will return to list of routes activity if they hit the back button.

Describe any libraries you'll be using and share your reasoning for including them.

Picasso to handle the loading and caching of images.
Butter Knife for field and method binding.

Describe how you will implement Google Play Services or other external services.

Maps API to display user route on the Google Map.
Firebase Realtime Database to keep all saved routes.

Next Steps: Required Tasks

Task 1: Project Setup

List of subtasks to setup the project:

- Configure Picasso and Butter Knife libraries
- Configure Google Services to use Map API
- Configure Firebase Realtime database

Task 2: Implement UI for Each Activity and Fragment

List the subtasks. For example:

- Build UI for RoutesActivity with the list of saved routes
- Build UI for NewRouteActivity to start and stop new route recording
- Build UI for RouteDetailsActivity to display route on the map
- Build MapFragment, which will be attached to RouteDetailsAcivity and will display route on the map

Task 3: Implement app logic

Implement app data creation, writing and reading logic:

- Create new route
- Save route data
- Read saved routes from database

Task 4: Implement Firebase services

Create database in Firebase Realtime database:

- Create database
- Write data to database
- Read data from database

Task 5: Implement Google Play Services

Display map with selected route points:

- Create layout
- Read route data
- Display route data on map